

SEAC⁴RS-NA Theory Breakout Group

Theory (Modeling) Breakout Goals



- Pre-mission activities
 - Intercomparison of BB emissions
 - Assess analysis climatology
 - Assess forecast skill
 - Coordination D-AQ/HS3
- On-line forecasting products
 - Standardized plots
 - In-situ sampling (e.g., aerograms)
 - Integration into MTS
 - Data access

- During-mission activities
 - Daily ChemWx Briefings
 - Ad-hoc data analysis w/ teams
 - Analysis sampling along ER-2, DC-8 flight path (first look)
 - Archive, ICARTT format
- Post-mission

List: seac4rs-models@lists.nasa.gov

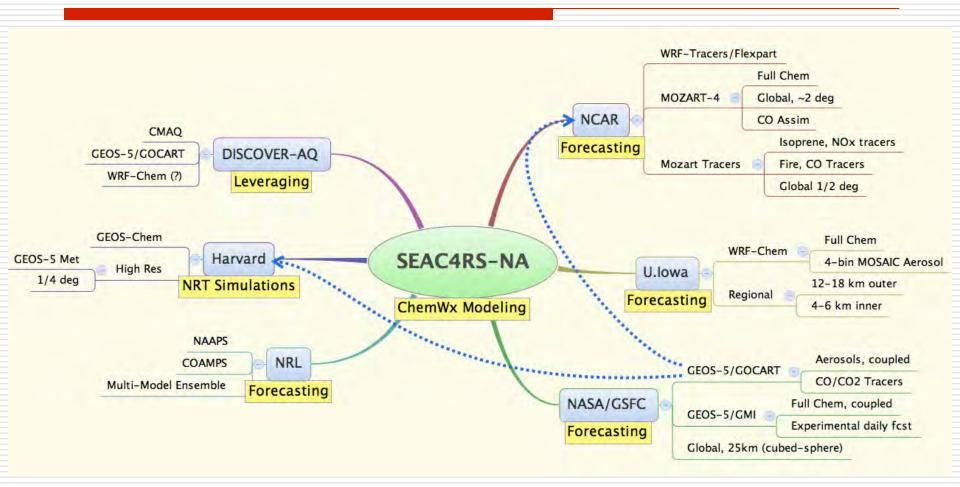


Assessment

- Convection
 - Hourly precip
- □ Transport
- Aerosols
 - Aod
 - Aaod
 - Vertical structure
 - PBL

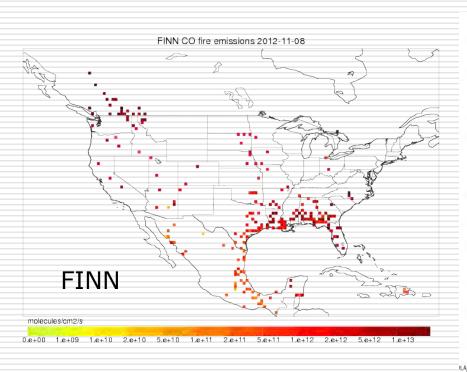
SEAC4RS-NA Modeling Capabilities at a Glance

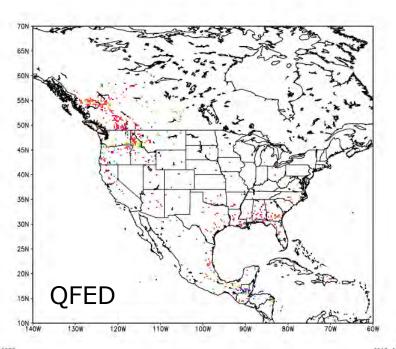




Biomass Burning Emission Intercomparison







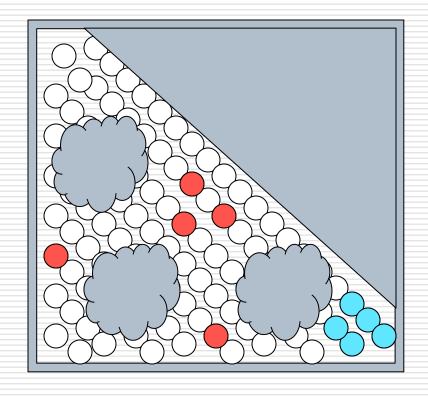
DLA/IGES 2013-04-3

Gridding Biomass Burning Emissions



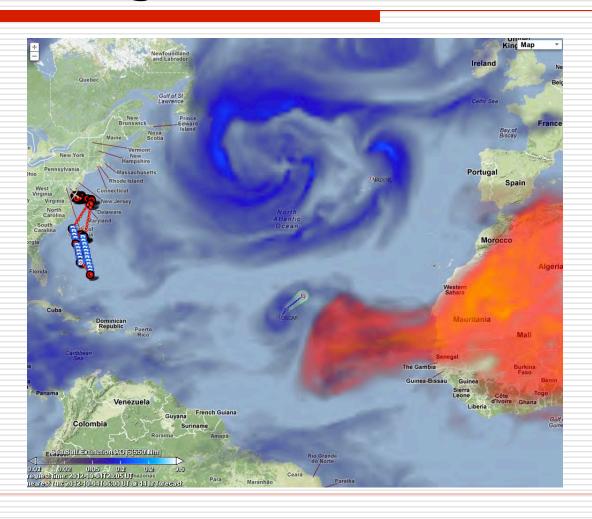
- Intercompare both
 - Pixel level emissions
 - Grid-box emissions

Model grid-box





MTS Integration





Aerograms

